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Yes (provide details below)

## Air Operating Permit Excess Emissions Report Form Part II

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Name of Facility	Shell, Puget Sound Refinery		Reported by		Tim Figgie	
Date of notification	April 21, 2014		Incident type: breakdown/ upset/startup or shutdown		Startup	
Start Date	April 21, 2014		Start Time:		9:00 PM	
End Date	April 21, 2014		End Time:		10:00 PM	
Process unit or system	n(s): Flare	9				
Incident Description						
On April 21, 2014 duri Turnaround a valve wa the valve was opened. (WGC) interstage. The Preventing tripping the to the flare caused bre at 9 and 10PM.	as slightly o The valve e condensat e WGC was	pen on a de allowed cor e was drain done in orde	commissioned ndensate to en ed to the flare er to minimize	l line. It is unk ter the FCCU w to prevent trip flaring. The d	rnown when and why vet gas compressor pping the WGC. raining of condensate	
Immediate stone tak	on to limit t	ha duuatiaa	d / L:	L		
Immediate steps taken to limit the duration and/or quantity of excess emissions:  FGR was operating to recovery as much excess flare gas as possible.						
TON Was operating to i	ecovery as	much exces	ss nare yas as	possible.		
Applicable air operating	g permit ter	m(s): perm	it terms are n	ot yet defined		
		Pollutant(s): SO2		Pounds (Estimate): 21		
Based on online H2S CEMS and fuel gas flow meters				21		
The incident was the  Scheduled of Scheduled of Scheduled of Poor or inaction Poor or inaction Poor or inaction A reasonable	equipment sequipment sequipment sequente des dequate des por, or inade dequate mai	startup shutdown sign equate oper intenance	ation	apply):		
Did the facility receive	e any comp	aints from t	he public?			
⊠ No □ Yes (provide	e details bel	ow)				
Did the incident result	: in the viola	ation of an a	ımbient air qu	ality standard		

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Root and other contributing causes of incident:
The root cause of this event was high flow of hydrocarbon to the flare FGR system during shutdown of the Northside process units in preparation for a planned maintenance turnaround.
The root cause of the incident was:  (The retention of records of all required monitoring data and support information shall be kept for a period of five years from the date of the report as per the WAC regulation (173-401-615))  Identified for the first time  Identified as a recurrence (explain previous incident(s) below – provide dates)
Are the emissions from the incident exempted by the NSPS or NESHAP "malfunction" definitions below?  No  No  No  No  No  No  No  No  No  N
Yes (describe below)
<u>Definition of NSPS "Malfunction"</u> : Any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or failure of a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. 40 CFR 60.2 <u>Definition of NESHAP "Malfunction"</u> : Any sudden, infrequent, and not reasonably preventable failure of air pollution control and monitoring equipment, process equipment, or a process to operate in a normal or usual manner which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. 40 CFR 63.2  Analyses of measures available to reduce likelihood of recurrence (evaluate possible design, operational, and maintenance changes; discuss alternatives, probable effectiveness, and cost; determine if an outside consultant should be retained to assist with analyses):
To prevent a reoccurrence of this event, the decommissioned line has been air gapped.
Description of corrective action to be taken (include commencement and completion dates):  See above
If correction not required, explain basis for conclusion:
See above Attach Reports, Reference Documents, and Other Backup Material as Necessary. This report satisfies the requirements of
both NWCAA regulation 340, 341, 342 and the WAC regulation (173-400-107).
Is the investigation continuing? $\square$ No $\square$ Yes Is the source requesting additional time for completion of the report? $\square$ No $\square$ Yes
Based upon information and belief formed after reasonable inquiry, I certify that the statements and information in this document and all referenced documents and attachments are true, accurate and complete.
Prepared By: _ James Stellar Date: Apr 22, 2014
Responsible Official or Designee: